Cubic Ink® High Performance 4-1203

Material with a good balance between temperature form-stability and toughness for final part production

Liquid Properties	Value[1]	Unit
Viscosity @ 50 °C (DIN EN ISO 3219)	15	mPa·s
Density (DIN EN ISO 15212-1)	1.08	g/mL
Surface Tension (Dynamic Bubble Pressure)	32	mN/m
Tensile Properties[2] (DIN EN ISO 527-5A)		
Ultimate Tensile Strength	66	MPa
Yield Strength	66	MPa
Tensile Modulus	3000	MPa
Elongation at Break	6.0	%
Flexural Properties[3] (DIN EN ISO 178)		
Flexural Strength	118	MPa
Flexural Modulus	2700	MPa
Deflection at Fracture	>3.5	%
Impact Properties (DIN EN ISO 180)		
Izod unnotched	224	J/m
Hardness (DIN EN ISO 7619)		
Shore Hardness	84	D
Thermal Properties (DIN EN ISO 75)		
HDT A	78	°C
HDT B	100	°C

Electrical Properties[4]

Dielectric strength (IEC60243-1)	22	kV/mm
Dielectric strength after 24 h/RT H_2O (IEC60243-1)	22	kV/mm
Relative Permittivity (Dielectric Constant, 24 °C, 1 MHz, IEC60250)	6.5	-
Dissipation Factor (24 °C, 1 MHz, IEC60250)	0.027	-
Volume Resistivity (IEC60093)	5.6 x 10^{14}	Ω·cm
Volume Resistivity after 7 d/RT H_2O (IEC60093)	2.1 x 10^{14}	Ω·cm
Comparative Tracking Index (IEC60112)	>600	V

Flame (UL94)

Flammability, horizontal (at 3.2 mm)	HB	-

Print Appearance/ Color

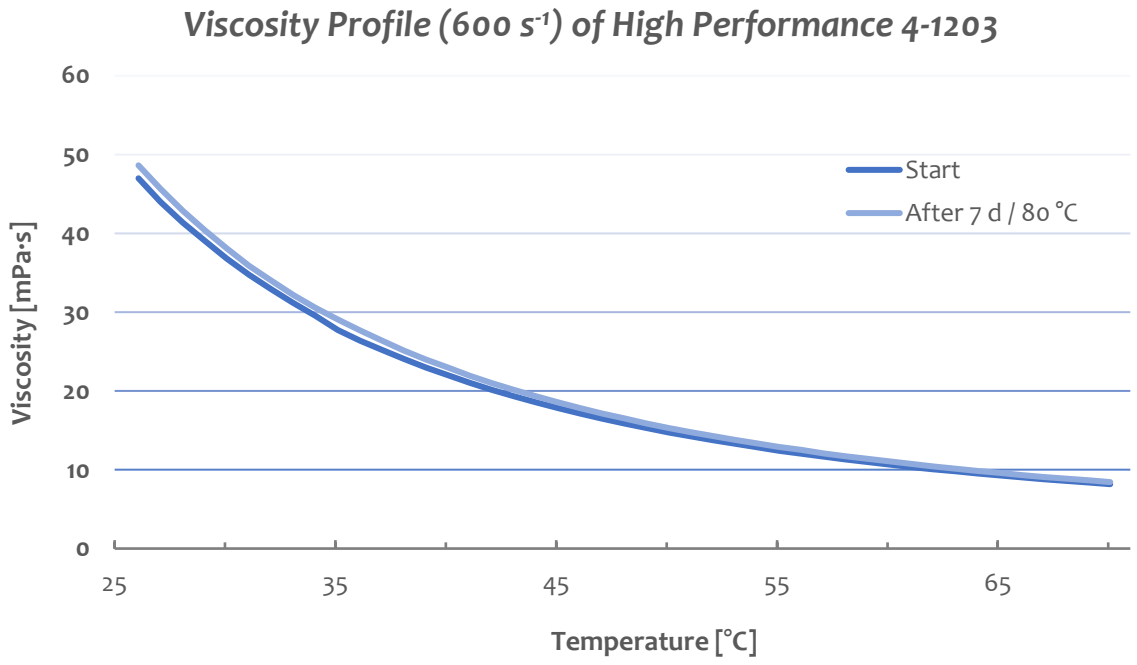
Natural color is translucent light yellow. Also available in cyan, magenta, yellow, black, and grey. More colors on request.

Availability and Storage

Batch sizes starting from 1 kg.

Store between 21 and 28 °C and protect from light. Stir prior to use.

[1]Properties with post-processing – washed with water, UV and thermal post-cure. All material properties can vary with printer, print settings, object orientation, part geometry, post-processing and age of sample. [2]5 mm/min; [3]10 mm/min; [4]Properties correspond to related product High Performance 4-300 VP.



Cubic Ink®
ALTANA New Technologies GmbH

located at

ACTEGA Terra GmbH
Mielestraße 13
31275 Lehrte
GERMANY

Tel +49 (0)5132 5009-600

cubic.ink@altana.com
www.altana.com

Learn more about Cubic Ink® materials
www.altana.com/cubic-ink
www.altana.de/cubic-ink

Follow us – ALTANA New Technologies GmbH – Cubic Ink®